

Title (en)

SYSTEM FOR PRODUCING A REINFORCING STRUCTURE FOR A TYRE WITH VOLUMETRIC CONTROL OF THE DIE

Title (de)

HERSTELLUNG EINER REIFENVERSTÄRKUNGSSTRUKTUR MIT DER VOLUMENREGELUNG DER MATRIX

Title (fr)

FABRICATION D'UNE STRUCTURE DE RENFORCEMENT POUR PNEUMATIQUE AVEC CONTROLE VOLUMETRIQUE DE LA MATRICE

Publication

**EP 1513672 A2 20050316 (FR)**

Application

**EP 03732489 A 20030528**

Priority

- EP 0305625 W 20030528
- FR 0206822 A 20020603

Abstract (en)

[origin: WO03101714A2] The invention relates to a device for producing a tyre reinforcing structure comprising wires which are disposed essentially parallel to one another, said device being intended to be used together with an essentially-toroidal element (1). According to the invention, the reinforcing structure is constructed gradually on the aforementioned toroidal element (1) by depositing hoops of wire side-by-side on the surface of the toroidal element along the desired trajectory for said wire. The inventive device consists of an assembler (5) comprising: an inlet which is used to receive the wires (2); a gumming chamber (50); a positive-displacement pump which is used to deliver a rubber composition inside the gumming chamber; and a strip delivery outlet (20), said strip comprising the wires which are connected by said rubber composition. The invention also includes a strip depositing device (4) comprising a reference frame in relation to which the toroidal element can be installed at a known position.

IPC 1-7

**B29D 30/16**; **B29C 47/92**

IPC 8 full level

**B29D 30/30** (2006.01); **B29C 48/08** (2019.01); **B29C 48/156** (2019.01); **B29C 48/37** (2019.01); **B29C 48/38** (2019.01); **B29C 48/92** (2019.01); **B29D 30/16** (2006.01); **B29D 30/38** (2006.01)

CPC (source: EP US)

**B29C 48/08** (2019.01 - EP US); **B29C 48/156** (2019.01 - EP US); **B29C 48/37** (2019.01 - EP US); **B29C 48/387** (2019.01 - EP US); **B29C 48/397** (2019.01 - EP US); **B29C 48/92** (2019.01 - EP US); **B29D 30/1657** (2013.01 - EP US); **B29C 48/2888** (2019.01 - EP US); **B29C 2948/92571** (2019.01 - EP US); **B29C 2948/92638** (2019.01 - EP US); **B29C 2948/92657** (2019.01 - EP US); **B29C 2948/92904** (2019.01 - EP US); **B29C 2948/92942** (2019.01 - EP US); **B29D 2030/1685** (2013.01 - EP US)

Citation (search report)

See references of WO 03101714A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 03101714 A2 20031211**; **WO 03101714 A3 20040923**; **WO 03101714 A8 20050120**; AT E358570 T1 20070415; AU 2003238423 A1 20031219; AU 2003238423 A8 20031219; BR 0304965 A 20040928; CN 100408320 C 20080806; CN 1659016 A 20050824; DE 60312983 D1 20070516; DE 60312983 T2 20071213; EP 1513672 A2 20050316; EP 1513672 B1 20070404; JP 2005528258 A 20050922; JP 4637575 B2 20110223; US 2005076993 A1 20050414; US 2008000574 A9 20080103; US 7399374 B2 20080715

DOCDB simple family (application)

**EP 0305625 W 20030528**; AT 03732489 T 20030528; AU 2003238423 A 20030528; BR 0304965 A 20030528; CN 03812836 A 20030528; DE 60312983 T 20030528; EP 03732489 A 20030528; JP 2004509042 A 20030528; US 93004 A 20041202